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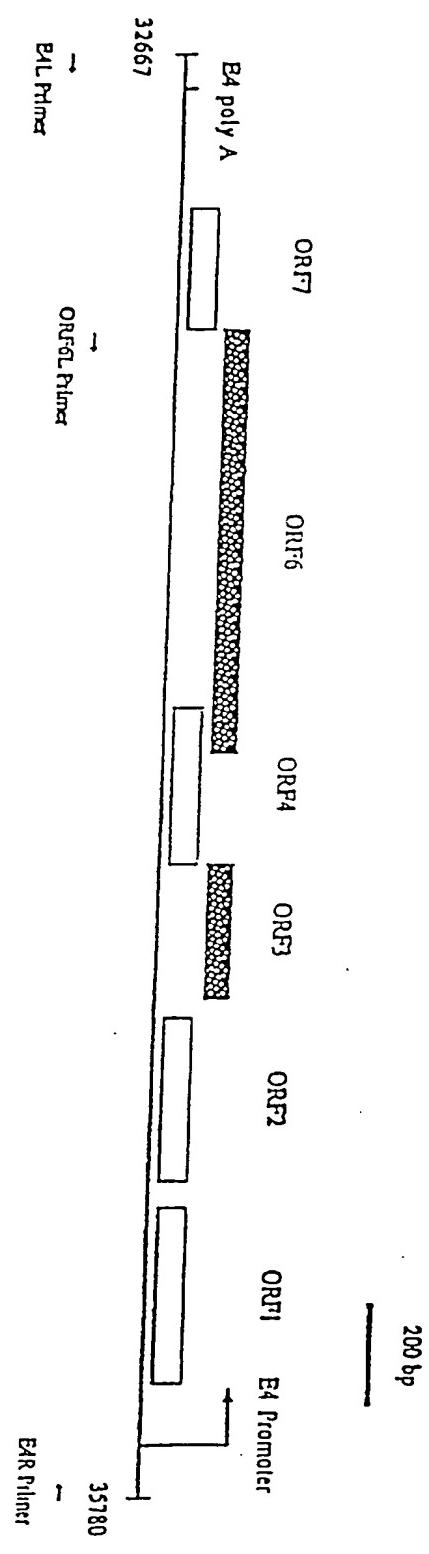


Figure 1

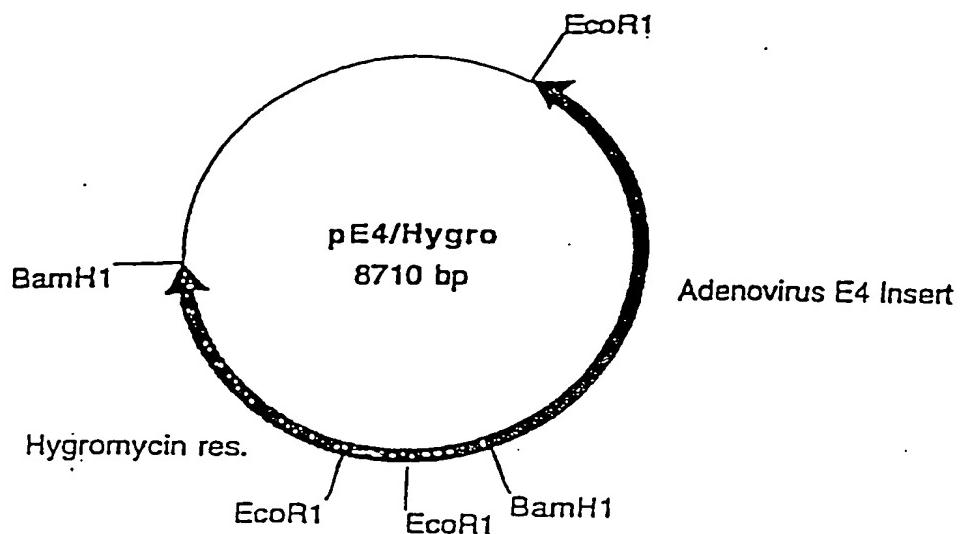


Figure 2

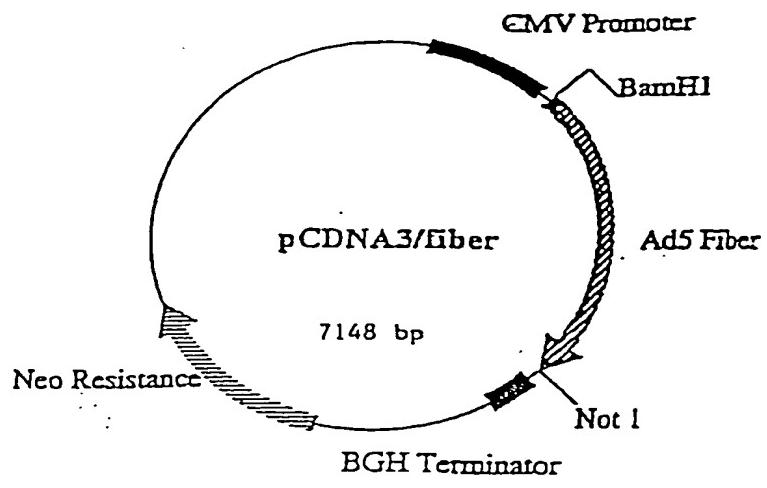


FIGURE 3

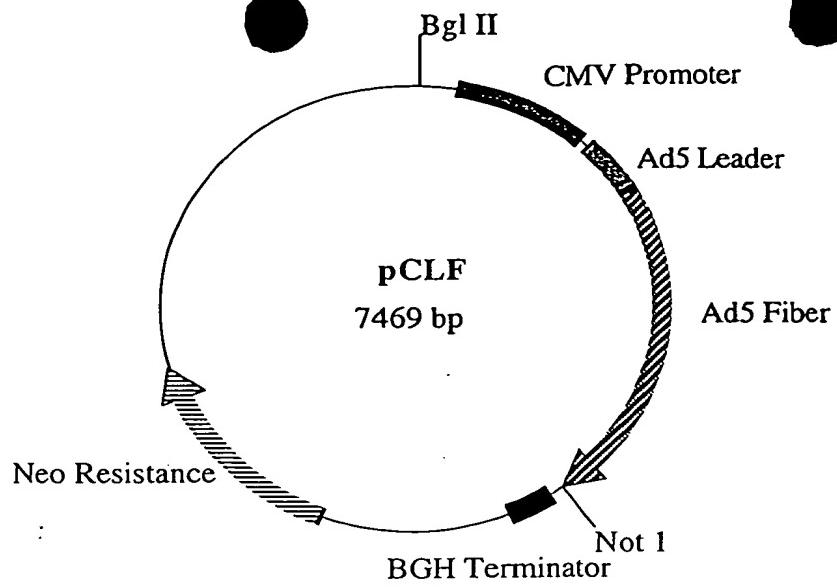


Fig. 4

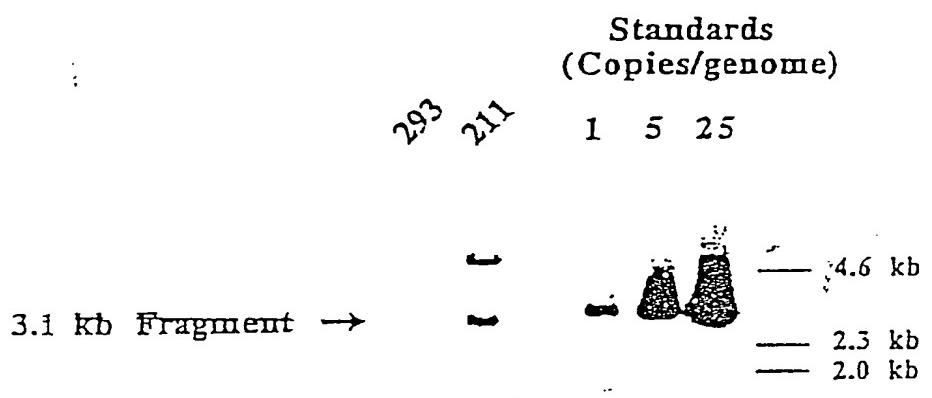


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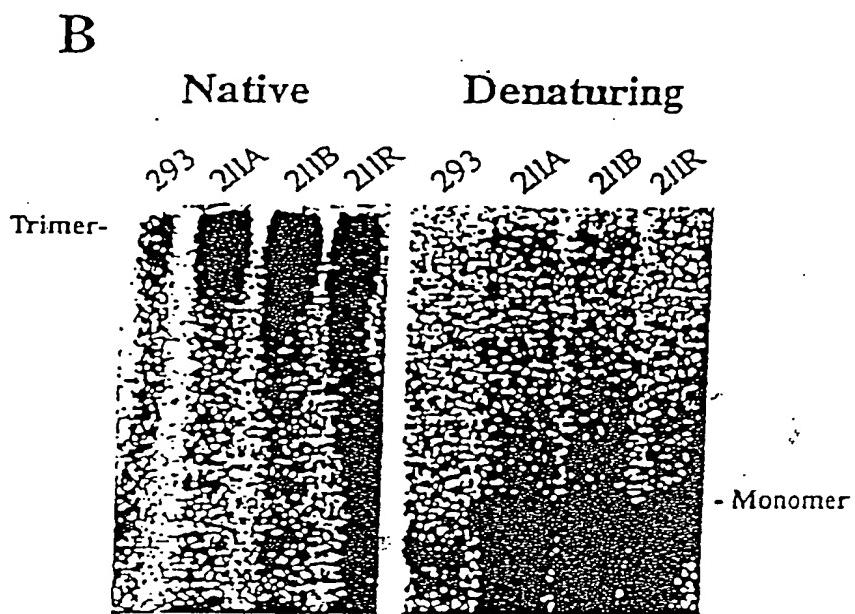


Figure 6

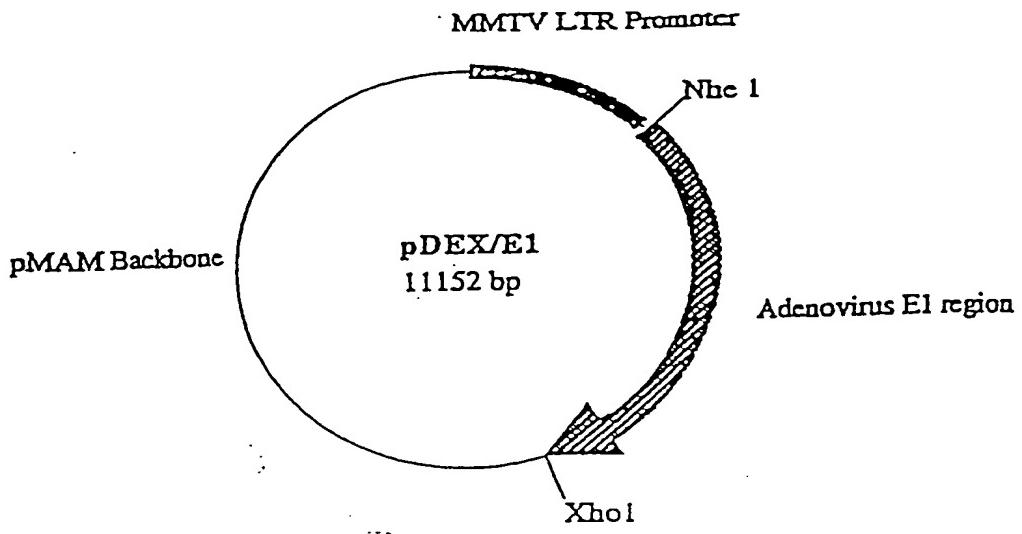


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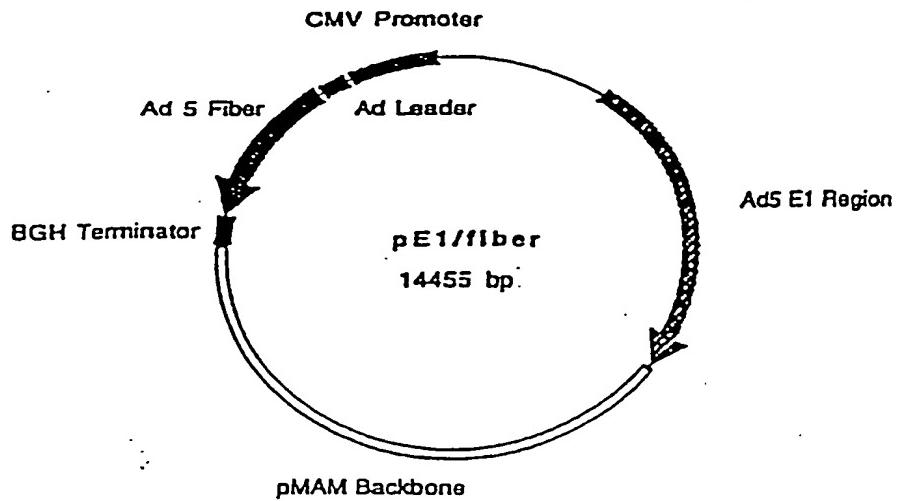


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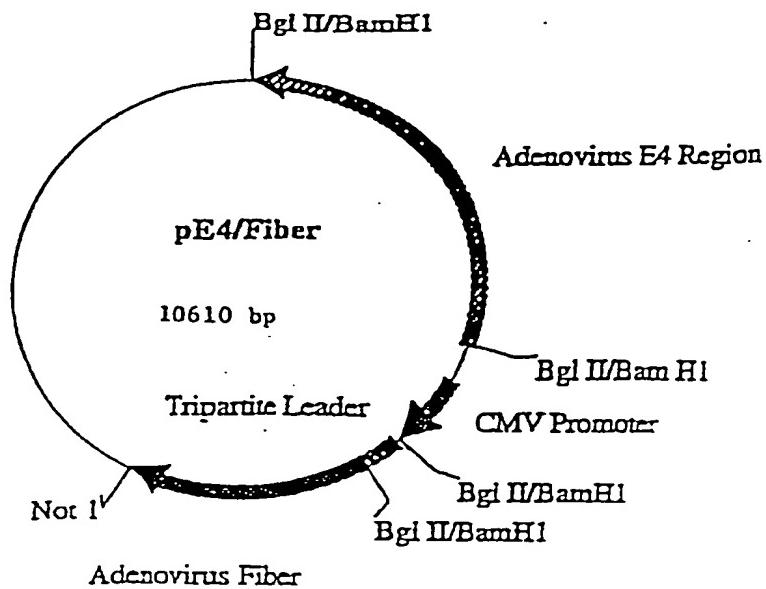


Figure 9

Functional
Packaging
Sequences

B1 Deleted
LacZ Inserted



β_{gal}

FIGURE 4.0

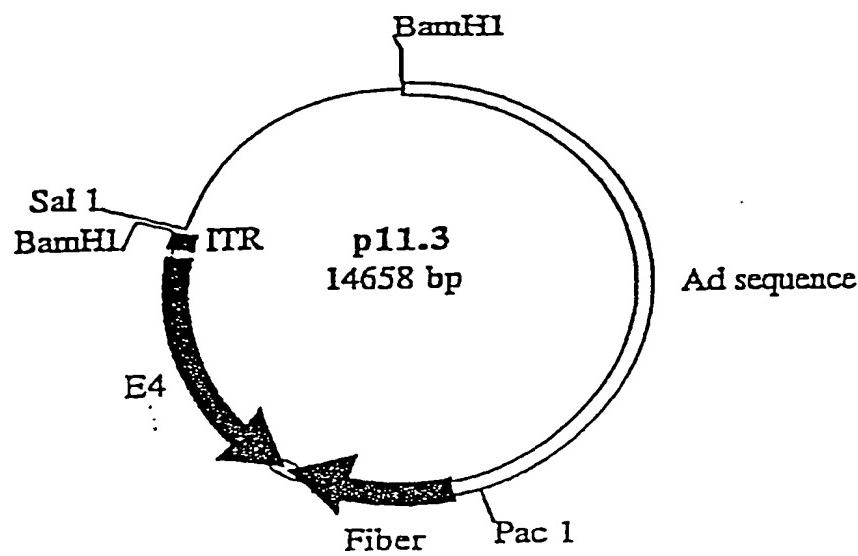
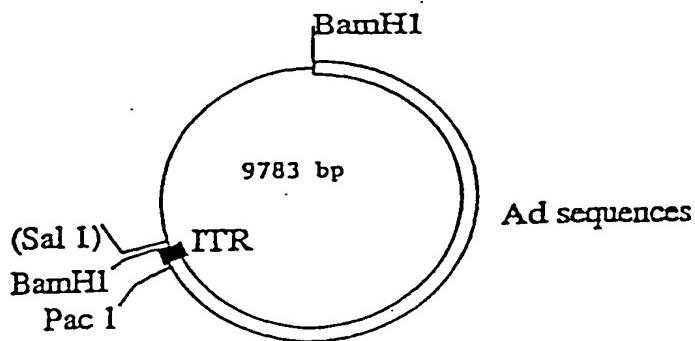


Figure 11



p8.2

FIGURE 12

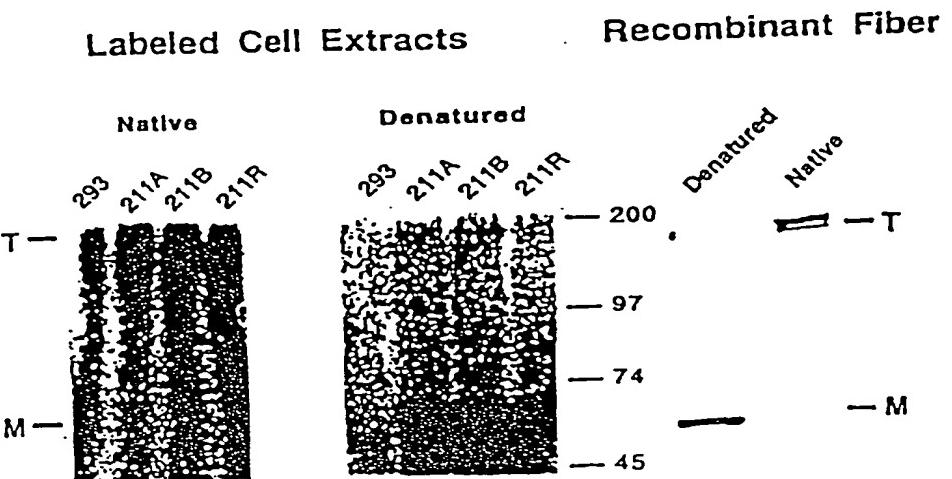
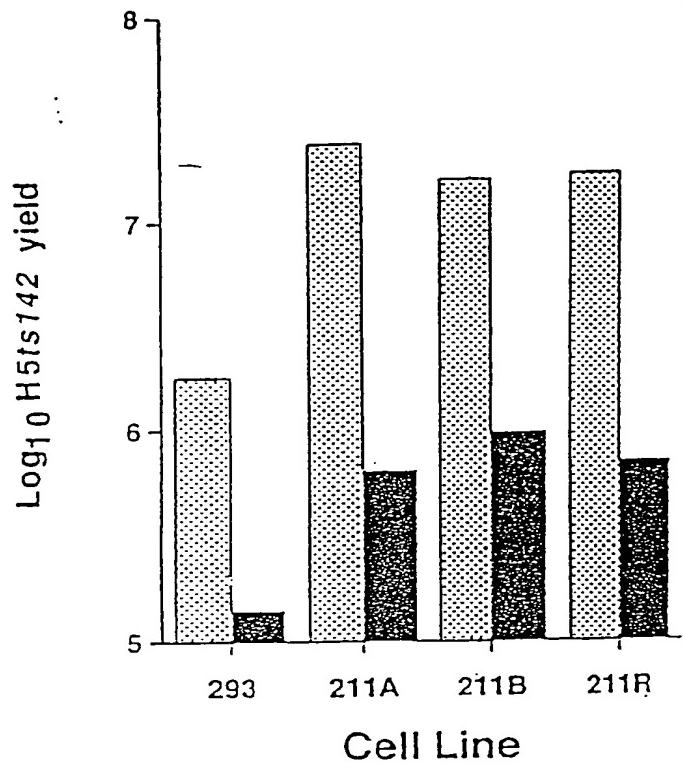


Figure 13



|
Figure 14

A

Ad2/5 M-KRAPPSEDTFNPVVPYDTEETGPPPTVPPFLTPPFVSPHIGFOESPP
Ad3 MAKHARAELES-TFNPVVPYDCEESAA-QHPFIKNDQFISPDGFHQSPN
Ad18/27 MSKRALAYVEDD-FNPVVPYDGTARKH-NIDPFLTPPFVSEDGFKHFPD
Ad40(1) M-KHARF-EDDFNPVVPYCHYN-GLDIPPFITPPFAS&HGLQEXPP
Ad40(2) M-KATA-IEDDFNPVVPYDTSSTPS-IPYYADPFVS&DGLQEMPP

B

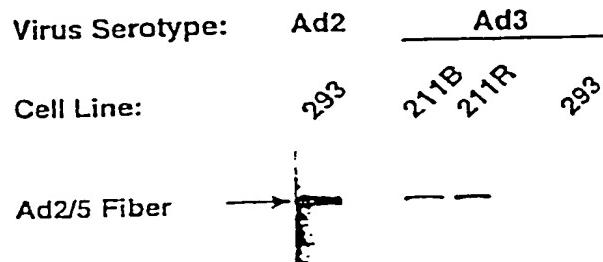


Figure 15

FIGURE 16

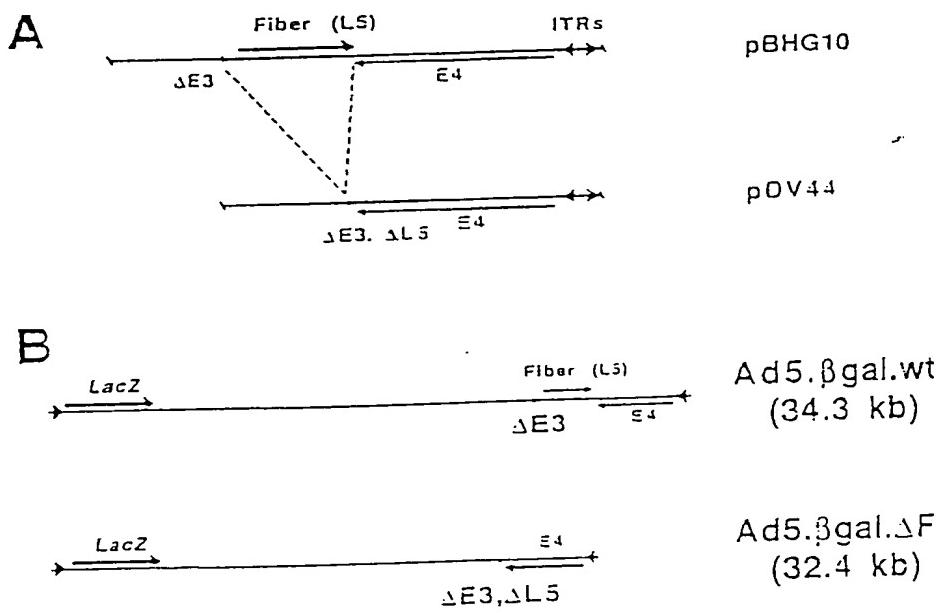


FIGURE 17

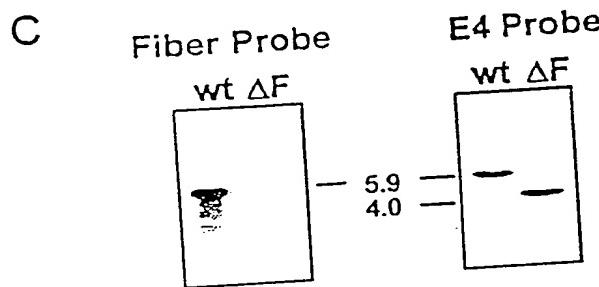
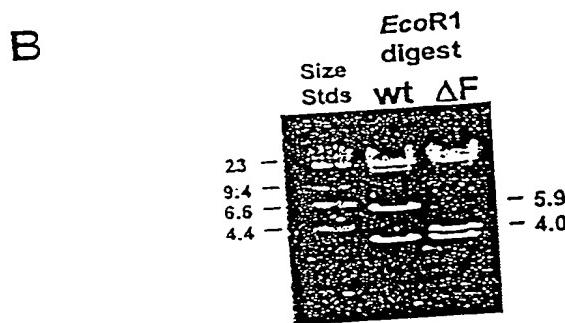
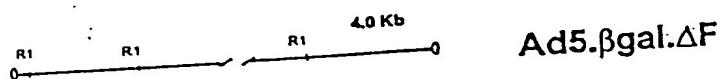
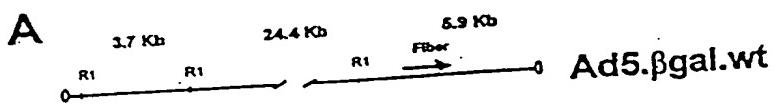
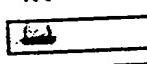
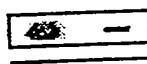
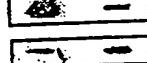
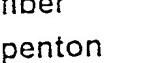


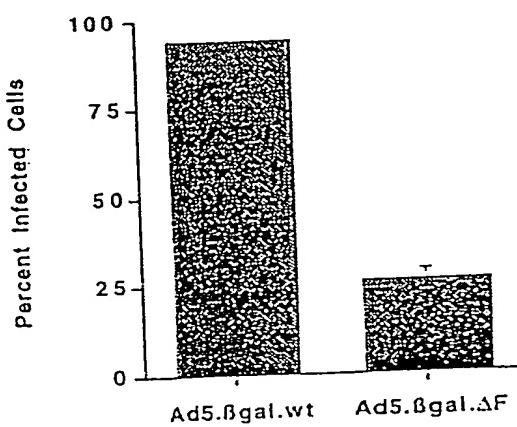
FIGURE 18

Cells	293		211B	
	wt	ΔF	wt	ΔF
Virus				

fiber
penton

FIGURE 19

A



B

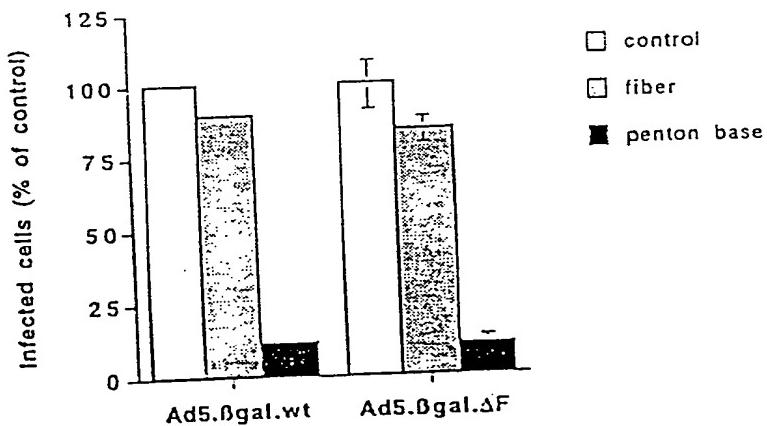
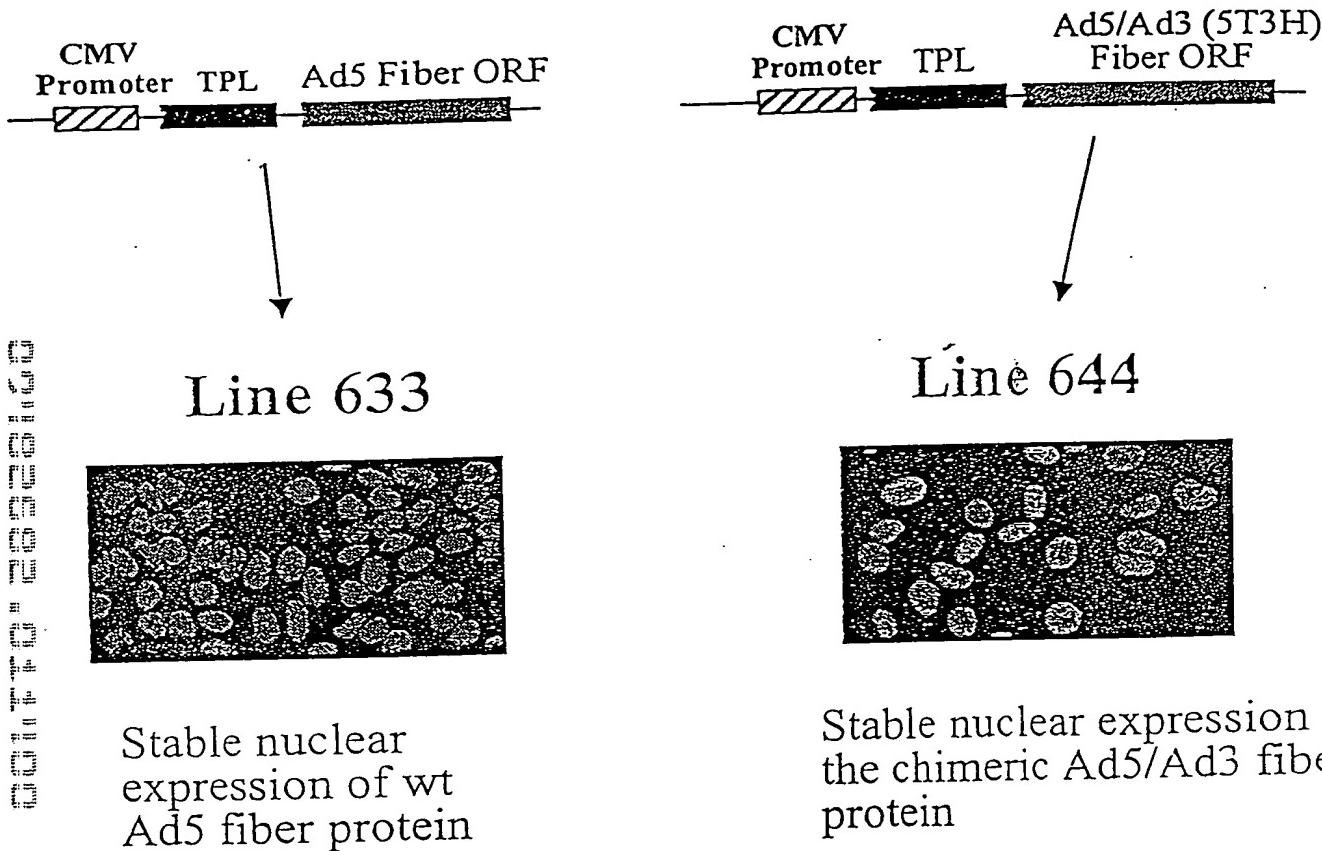


FIGURE 20

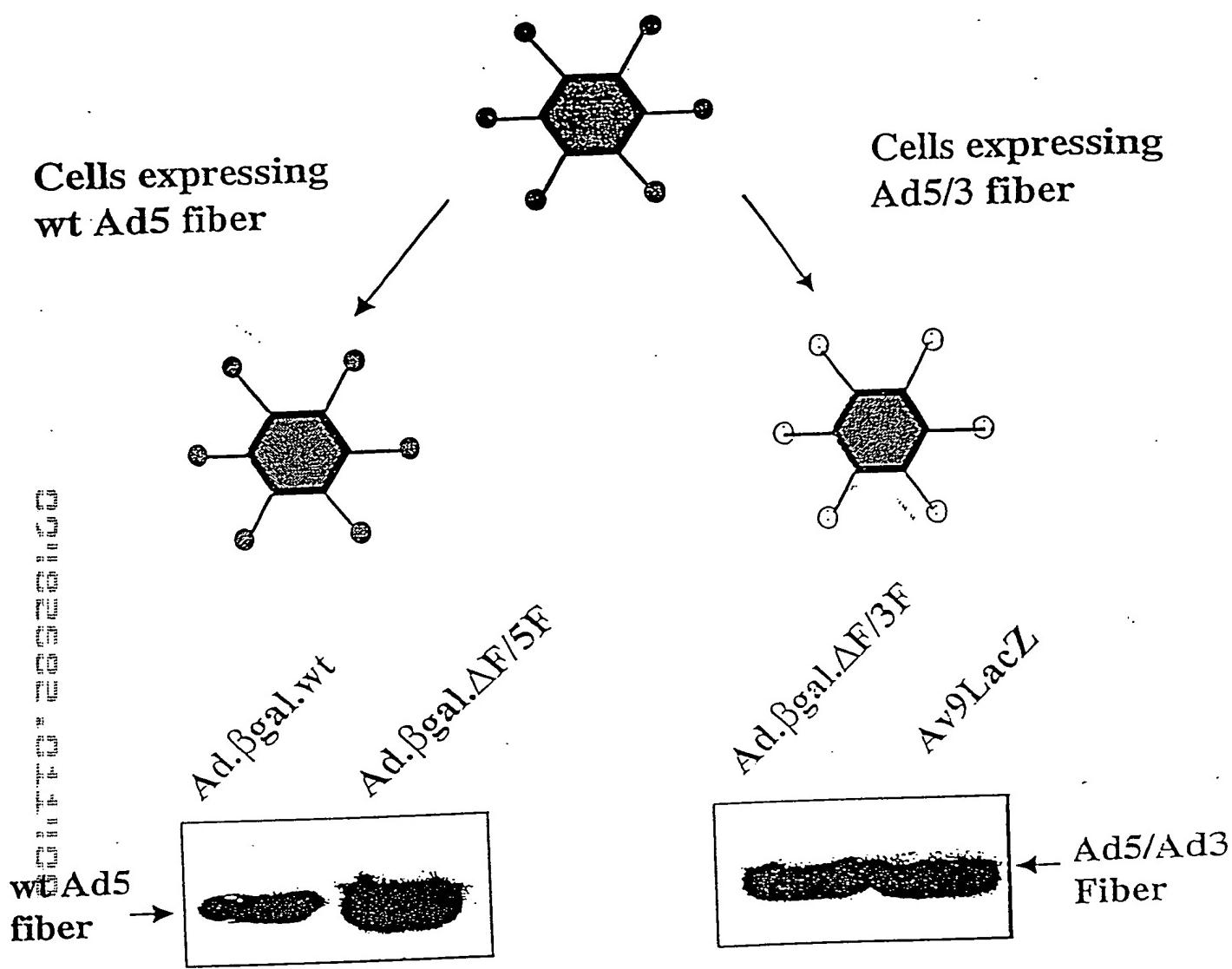
Improved Fiber-complementing Cell Lines



Indirect immunofluorescence assay of A549-based cell lines which stably express two different Ad fibers. Line 633 expresses the native Ad5 fiber protein, and line 644 expresses a chimeric fiber protein with the tail and shaft domains of the Ad5 protein and the knob domain of the Ad3 fiber. Previous work (Stevenson *et al.* 1996) showed that a virus containing this protein had the tropism expected for Ad3.

FIGURE 21

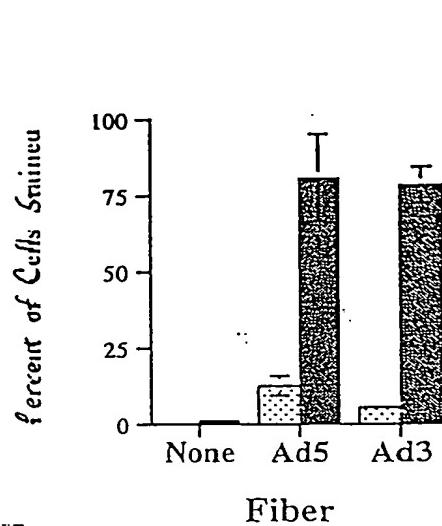
Pseudotyping of Ad. β gal. Δ F



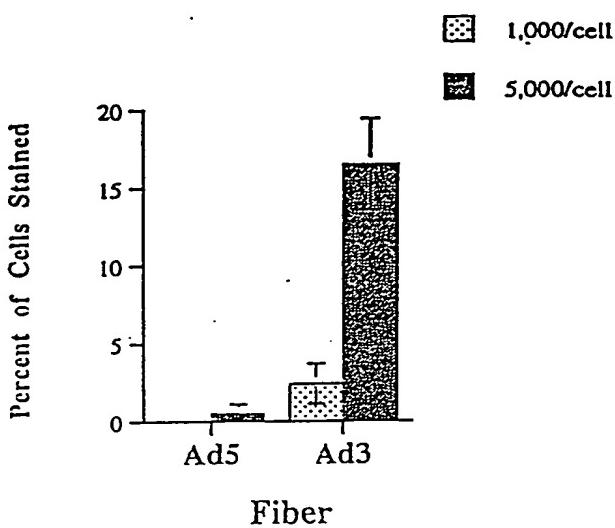
Viral particles were purified from either 632 cells (expressing wt Ad5 fiber) or from 644 cells (expressing the chimeric Ad5/Ad3 fiber). 10 μ g of fibre-purified particles were Western blotted, and the blot was probed with a polyclonal rabbit antibody against the Ad2 fiber. Equal amounts of purified Ad β gal.wt or Av9LacZ (which has the chimeric fiber gene on the viral chromosome) were run as controls.

FIGURE 22

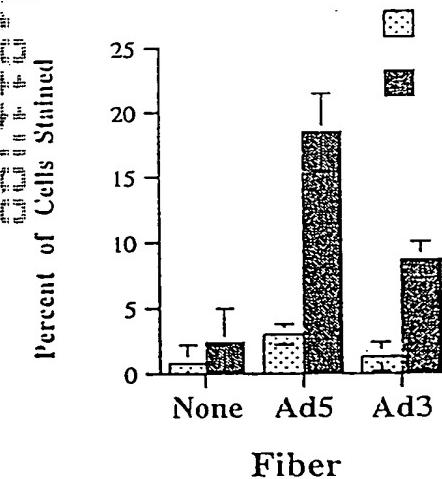
211B Cells (Human Embryonic Kidney)



MRC-5 Human Fibroblasts



A-10 Rat Aortic Endothelial Cells



THP-1 Human Monocytic Cells

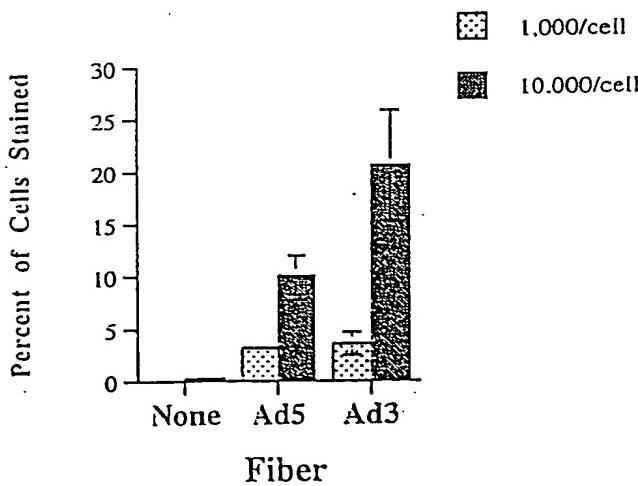
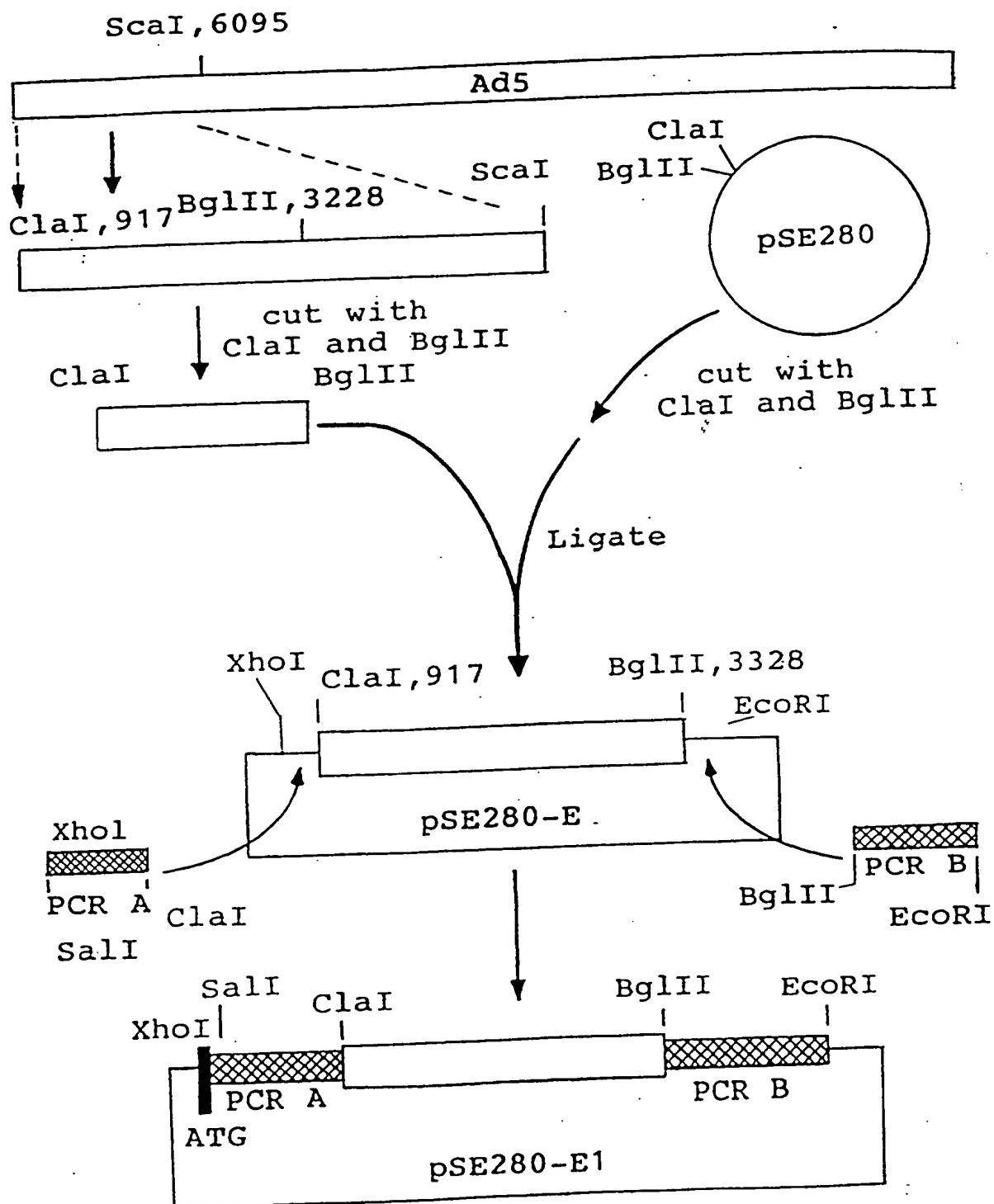
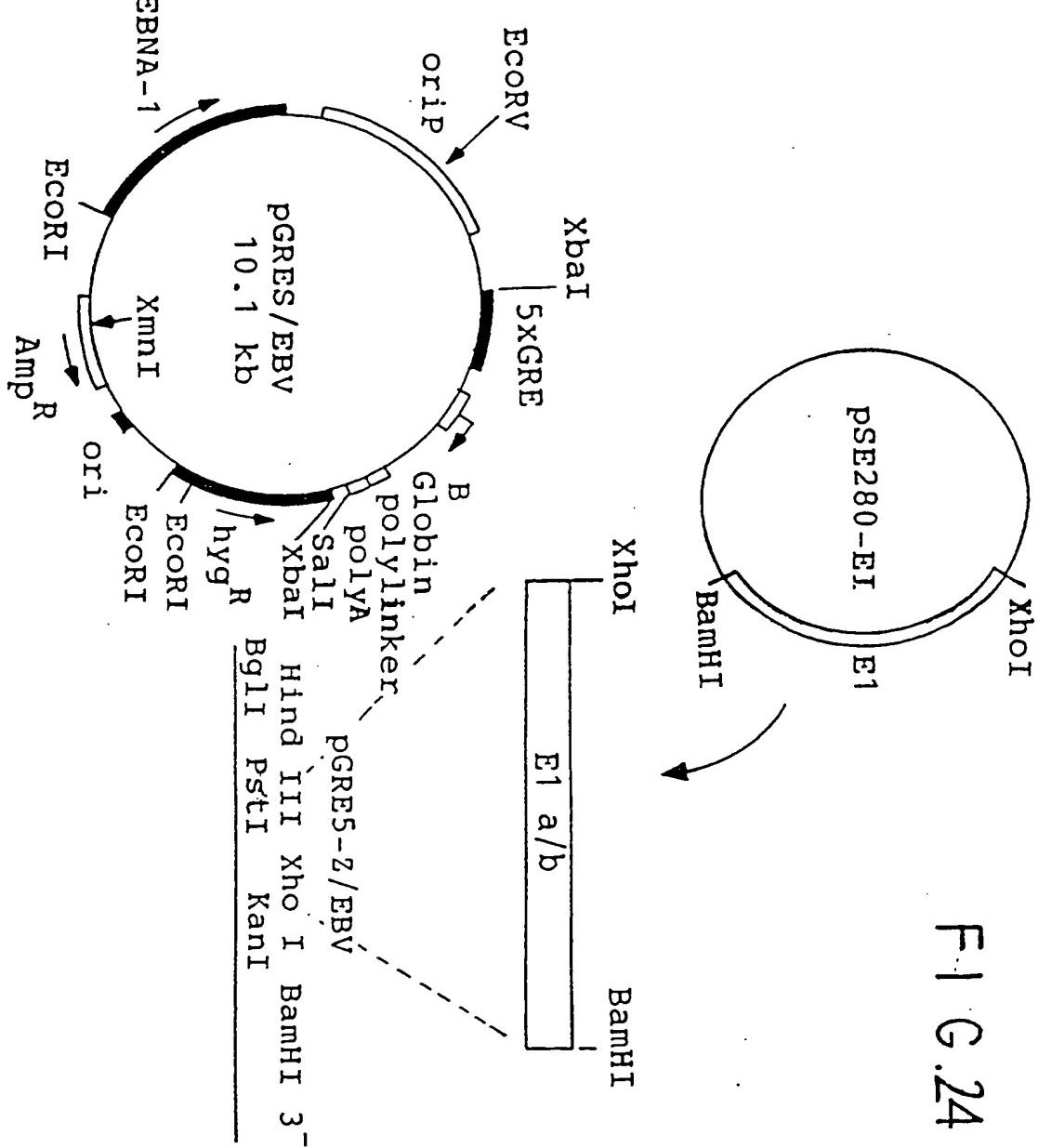


FIG. 23



F I G .24



F | G.25

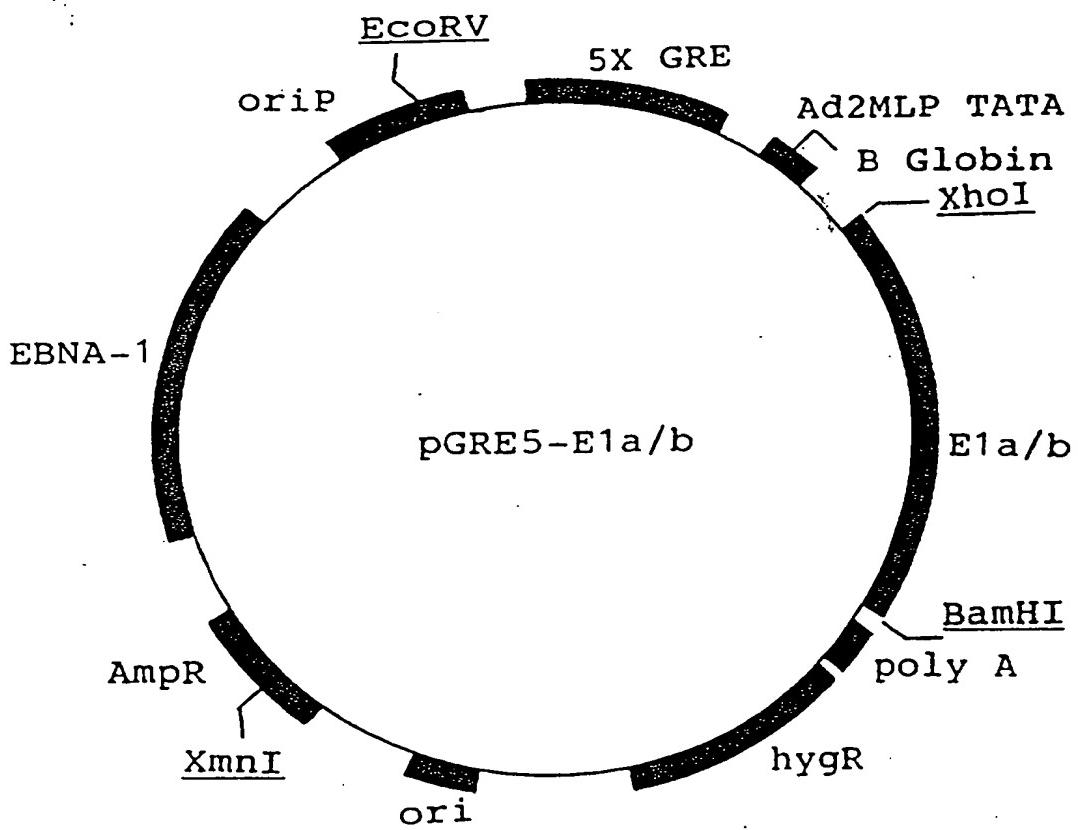
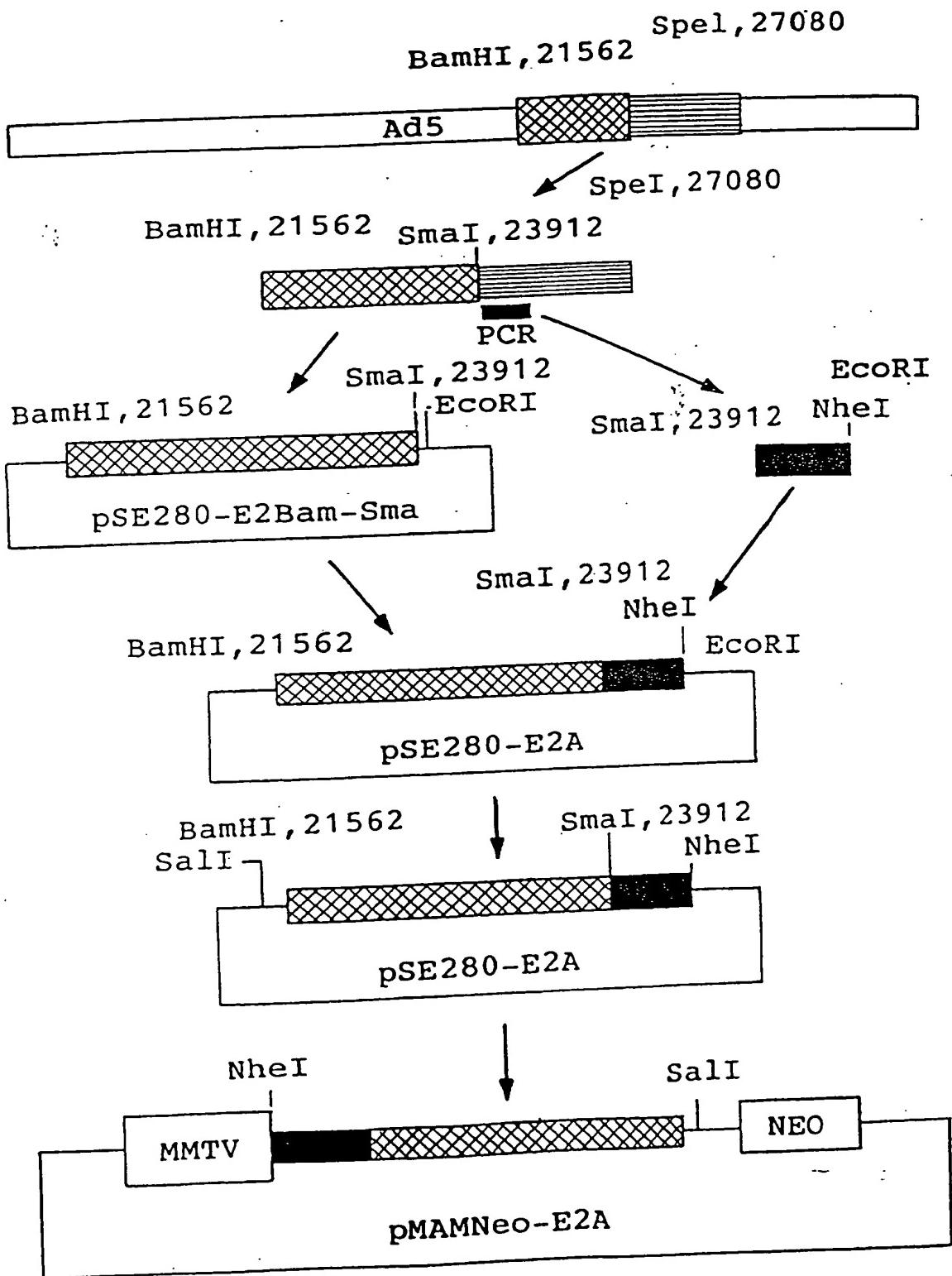


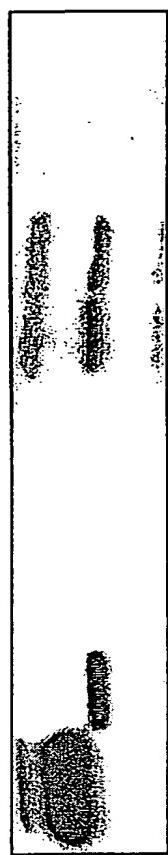
FIG. 26



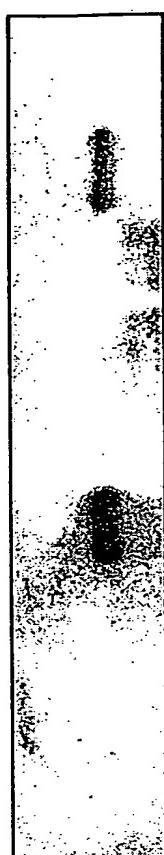
SUBSTITUTE SHEET (RULE 26)

Ad5. β gal. Δ F/O
Ad5. β gal. Δ F/5F
Ad5. β gal. Δ F/37F
Ad5. β gal. Δ F/37F
Ad5. β gal
Ad37. β gal
Ad37 Fiber Knob

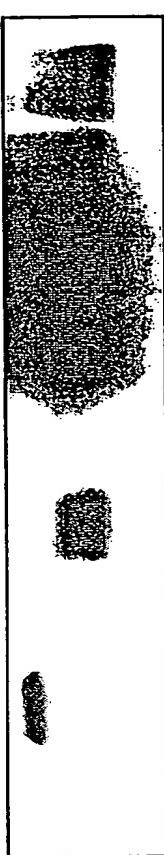
anti-37F



anti-5F



anti-PB



- Ad5 Fiber
- Ad37 Fiber Knob
- Ad5 Penton Base
- Ad37 Penton Base

FIGURE 27

**PCR analysis for fiber presence contamination of
fiberless adenonovectors.**

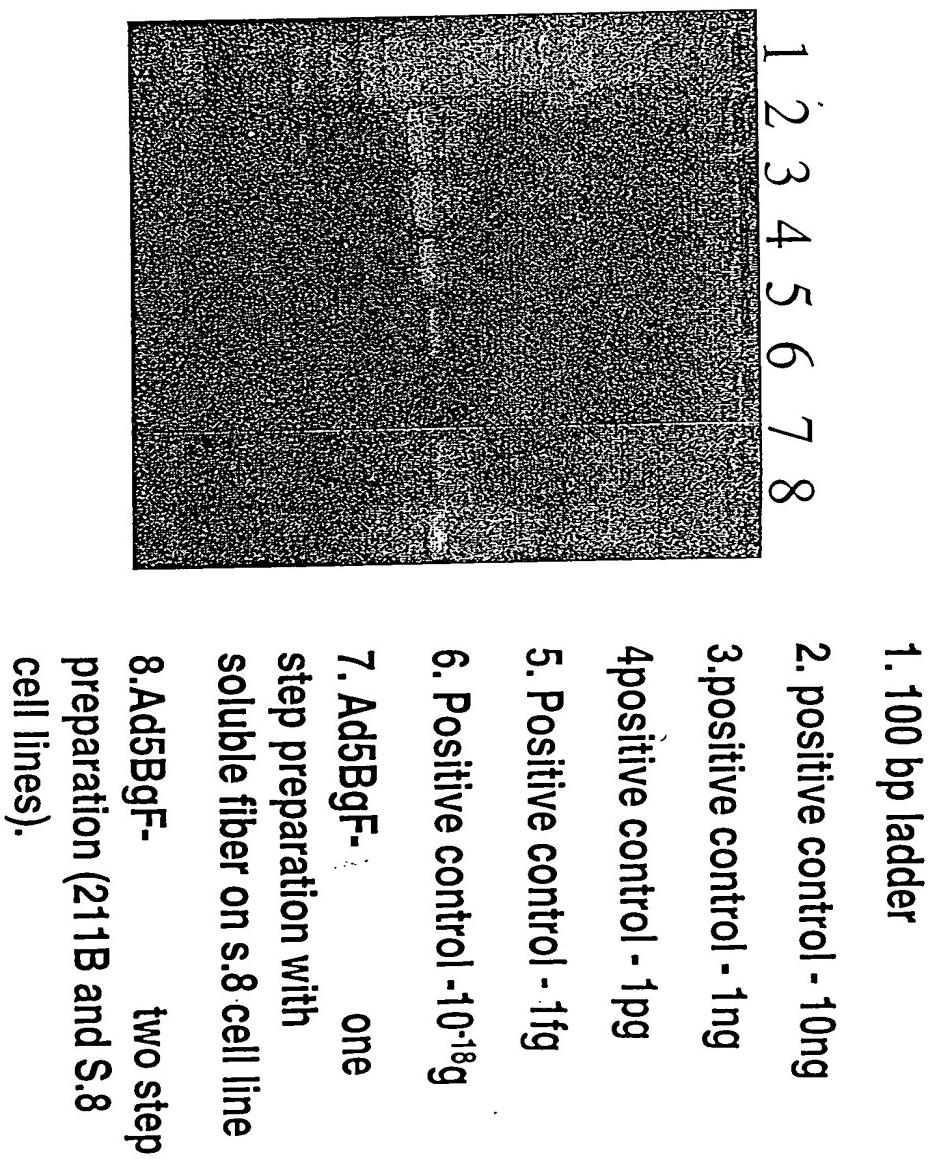


FIGURE 28

**Transduction Efficiency For Fiberless Virus with and without soluble fiber
(10ng/well) on S.8 cell line.
Chemoluminescent reporter gene assay.**



FIGURE 29

**Transduction Efficiency of Ad5BgF- on HDF cell line with presence
of different amount of 633 condition media.**

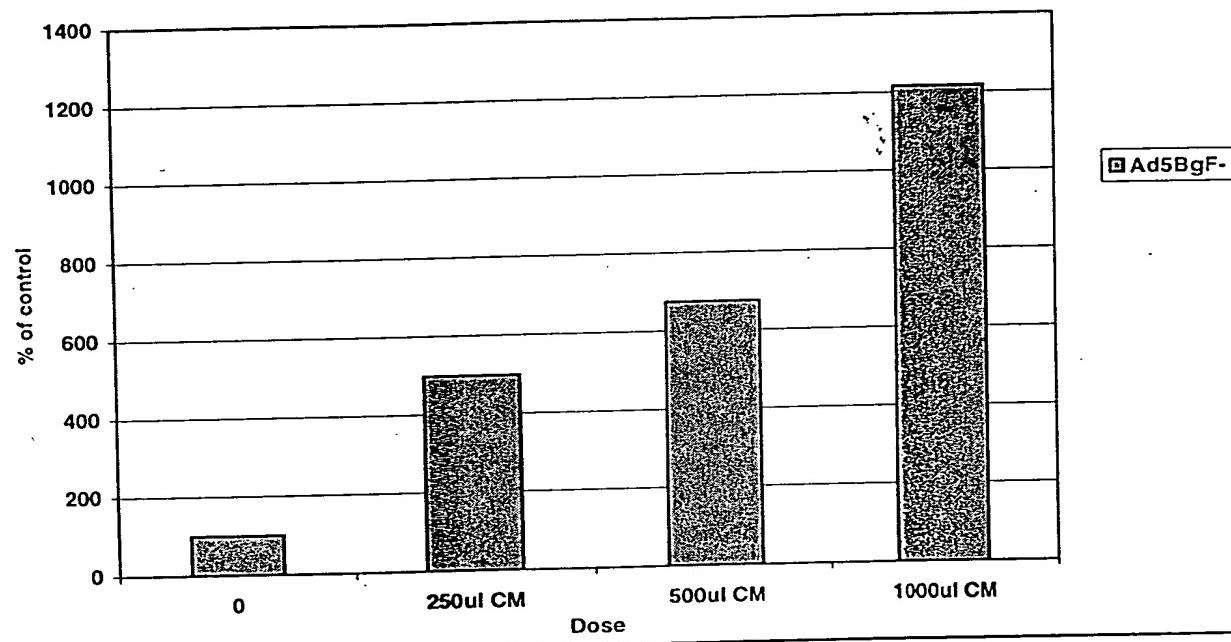


FIGURE 30